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CLAIMS

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- 1. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber support and a head which projects from said support when said stud has been mounted, characterised in that said threaded portion presents a thread provided with a free helical edge which extends along a substantially cylindrical surface.
- 2. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber support and a head which projects from said support when said stud has been mounted, characterised in that said threaded portion presents a substantially conical or frusto-conical core.
- 3. A self-tapping stud for rubber supports of shoes, tyres and the like, comprising a body presenting a threaded portion fixable into said rubber support and a head which projects from said support when said stud has been mounted, characterised in that said threaded portion presents a thread provided at its free start with a cutting edge, said cutting edge being orientated with the same inclination as said thread.
- 4. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that a first thread profile facing the convergent end of the core is substantially perpendicular to an axis of said core.
- 5. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that a second thread profile facing the body of said core is substantially inclined to an axis of said core.
- 6. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said second profile is inclined at an obtuse

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angle to an axis of said core.

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- 7. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said obtuse angle is between 95 and 110 degrees.
- 8. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said free helical edge presents a substantially flat longitudinal profile.
 - 9. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said substantially flat longitudinal profile presents dimensions between 0.4 and 1.6 millimetres.
 - 10. A self-tapping stud as claimed in one or more of the preceding claims, characterised in that said body (2) is faceted (2a), said part (5) presenting a rounded or round profile.
 - 11. A tool for mounting studs of the type comprising a body presenting a threaded portion fixable into a rubber support and a head which projects from said support when said stud has been mounted, characterised by comprising: a seat for receiving said head of said stud as an exact fit, and an abutment surface adjacent to a mouth of said seat, said tool enabling said stud to be screwed into said support until said abutment surface abuts against said support.
 - 12. A tool as claimed in claim 11, characterised by comprising a body within which there slides an operating element carrying at its end said seat, said body presenting a first element and a second element which are slidable one in the other against and by the action of elastic means and arranged to assume a first extended position, in which the first element defines a widened chamber facing the seat of the operating element to

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receive as an exact fit at least a part of said body of said stud, and a second contracted position, in which said seat of said operating element projects from said first element.

- 13. A tool as claimed in claim 11 or 12, characterised by enabling said stud to be screwed into said support until a surface (24a) of said first element (24) abuts against a surface (25a) of said second element (25).
- 14. A tool as claimed in claim 11, characterised by comprising a body from which said seat projects.
- 15. A tool as claimed in one or more of claims 11 onwards,

 10 characterised in that said seat comprises magnetic means to retain said stud in said seat.
 - 16. A tool as claimed in claim 11, characterised by comprising a body from which said seat projects, said body presenting close to said seat an end portion which converges to facilitate visibility in the seat region.
- 15 17. A self-tapping stud for rubber supports of shoes, tyres and the like, and a tool for mounting said stud, all substantially as described, represented in the accompanying drawings and claimed.